

PHILIP MORRIS USA
RESEARCH AND DEVELOPMENT DEPARTMENT

ITALY TEST #158

MR4-06AI
AM4-06AI
MR6-06AI
AM6-06AI

DISTRIBUTION

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The following cigarette brands from Italy (Bologna) were received at R & D and submitted for analyses on January 15, 1976.

Marlboro Long Size 20's (Box)
Muratti Ambassador Long Size 10's (Box)
Marlboro King Size 20's (Soft Pack)
Muratti Ambassador King Size 20's (Soft Pack)

The Marlboro long size 20's cigarettes were different from the previous average in tar, TPM and nicotine.

This is the first sampling of Muratti Ambassador long size 10's cigarettes from Italy.

The Marlboro king size 20's cigarettes were different from the previous average in tar, TPM, nicotine and paper porosity.

The Muratti Ambassador king size 20's cigarettes were last received from Italy in 1972. For this reason, no previous data are reported.

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	<u>Marlboro Long Size</u> <u>20's (Box)</u>		<u>Muratti</u> <u>Ambassador</u> <u>Long Size</u> <u>10's (Box)</u>		<u>Marlboro King Size</u> <u>20's (Soft Pack)</u>		<u>Muratti</u> <u>Ambassador</u> <u>King Size</u> <u>20's (Soft Pack)</u>	
	<u>Current</u>	<u>Prev.</u> <u>Avg.</u>	<u>Current</u>		<u>Current</u>	<u>Prev.</u> <u>Avg.</u>	<u>Current</u>	
<u>Smoke</u>								
Butt Length, mm	25	25	25		27	27	27	
FTC Tar, mg/cigt.	19.3	20.8	14.3		18.7	21.6	14.0	
TPM, mg/cigt.	24.2	26.1	17.2		23.3	26.9	16.4	
Nicotine, mg/cigt.	1.07	1.27	0.85		1.12	1.34	0.85	
Water, mg/cigt.	3.8	4.0	2.0		3.5	4.0	1.5	
Puffs/cigt.	8.9	8.7	8.9		9.3	9.3	9.1	
Filtration Eff., %	38	39	47		43	44	48	
<u>Cigarette</u>								
Total RTD, in. of H ₂ O	3.7	3.7	4.8		4.3	4.3	4.8	
mm of H ₂ O	94	94	122		109	109	122	
Static Burn. Time, min.	7.9	7.8	8.0		7.8	8.0	7.6	
Length, mm	80.1	80.1	80.0		84.9	85.1	85.2	
Circumference, mm	25.0	25.1	25.0		24.9	25.1	25.0	
Diameter, mm	8.0	8.0	8.0		7.9	8.0	8.0	
<u>Paper</u>								
Porosity, sec.	15	14	26		15	23	27	
<u>Filter</u>								
RTD, in. of H ₂ O	2.0	2.0	2.8		2.4	2.4	2.9	
mm of H ₂ O	51	51	71		61	61	74	
Inner, in. of H ₂ O	-	-	1.0		-	-	1.3	
mm of H ₂ O	-	-	25		-	-	33	
Outer, in. of H ₂ O	-	-	1.8		-	-	1.6	
mm of H ₂ O	-	-	46		-	-	41	
Length, mm	17.1	17.1	17.3		20.0	20.0	20.2	
Inner	-	-	8.9		-	-	12.6	
Outer	-	-	8.4		-	-	7.6	
Weight, g	0.11	0.11	0.20		0.13	0.13	0.24	
Inner	-	-	0.11		-	-	0.16	
Outer	-	-	0.09		-	-	0.08	
Carbon, mg/plug	-	-	52		-	-	73	
<u>Filler</u>								
Total alkaloids, %	1.58	1.55	1.11		1.52	1.62	1.10	
Total reducing sugars, %	7.4	7.7	9.6		7.2	7.3	9.5	
Wt. of tob., 1,000 cigts., g	830	841	856		885	873	864	
1,000 cigts., lbs.	1.8276	1.8518	1.8848		1.9486	1.9228	1.9024	
Rod Density, g/cc	0.265	0.266	0.274		0.276	0.268	0.267	
¹ C.V., cc/10 g	30	33	33		30	32	34	
¹ C.V., cc/10 g (Corrected to 12% O.V.)	36	36	36		37	36	37	
¹ Oven Volatiles, %	14.0	12.9	13.1		14.4	13.3	13.3	

¹Equilibrated at 75°F and 60% R.H. for 48 hrs.

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